

Office Work Instruction (OWI)

HOWI7020-S001

02/01/1999

Responsible Office: NASA Headquarters Office of Space Science (OSS) [Code S]
Assistant Associate Administrator for Strategic and International
Planning (AAA/SIP)

Subject: Strategic Planning

DOCUMENT HISTORY LOG

STATUS (BASELINE/ REVISION/ CANCELED)	DOCUMENT REVISION	EFFECTIVE DATE	DESCRIPTION
Baseline		02/01/1999	This is the initial "baseline" version of the OWI.

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1. PURPOSE The purpose of this Office Work Instruction (OWI) is to define the process by which the Office of Space Science (OSS) develops and promulgates the Strategic Plan (SP) of the Space Science Enterprise (SSE). Elements of the SSE SP are subsequently incorporated into the NASA Strategic Plan, required by the Government Performance and Results Act (GPRA) of 1993.

2. SCOPE AND APPLICABILITY

2.1 Preparation of the SSE SP is the responsibility of the OSS Headquarters science management, working with the scientific guidance of the broad research community and under the programmatic guidance of the Associate Administrator for Space Science, with coordinating support from the Assistant Associate Administrator for Strategic and International Planning (AAA/SIP). This OWI is applicable to all aspects of these activities.

3. DEFINITIONS

3.1 AA. The OSS Associate Administrator.

3.2 AAA/SIP. The OSS Assistant Associate Administrator for Strategic and International Planning.

3.3 Code SA. The OSS Science Board of Directors.

3.4 Code SM. The OSS Advanced Technology and Mission Studies Division.

3.5 Code Z. The NASA Office of Policy and Plans.

3.6 Community. The broad space-science research community, including researchers at universities, NASA Centers, and in

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industry. In addition to informal consultation, formal communication with the community occurs through participation of community members on the SScAC, roadmapping teams, and entities of the NRC.

- 3.7 Far-Term. The interval of time that extends beyond 12 years from the present into the indefinite future.
- 3.8 Mid-Term. The interval of time that begins 7 to 8 years from the present and extends through the following 4- to 5-year period.
- 3.9 Near-Term. The interval of time that begins 2 to 3 years from the present and extends through the following 5-year period.
- 3.10 NRC. The National Research Council.
- 3.11 OSS. The Office of Space Science.
- 3.12 Roadmaps. Informal documents assembled by representatives of the research community that describe alternative future flight, research, and technology-development programs within their areas of competence.
- 3.13 SSB. The Space Studies Board of the NRC.
- 3.14 SScAC. The Space Science Advisory Committee, which is the primary committee of the NASA Advisory Council with cognizance of activities of the OSS.
- 3.15 SSE. The Space Science Enterprise.

4. REFERENCES

- 4.1 ANSI/ISO/ASQC Q9001-1994

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American National Standard, Quality Systems --
Model for Quality Assurance in Design,
Development, Production, Installation, and
Servicing

4.2	HCP1280-2	Corrective and Preventive Action
4.3	HCP1280-3	Internal Quality Audits
4.4	HCP1400-1	Document and Data Control
4.5	HCP3410-4	Employee Training
4.6	HQPC1150.1	NASA Headquarters Quality Council Policy Charter
4.7	HQSM1200-1	NASA Headquarters Quality System Manual
4.8	NHB 1101.3	NASA Organization Handbook
4.9	NPD 1000.1	NASA Strategic Plan
4.10	NPD 8730.3	NASA Quality Management System Policy (ISO 9000)
4.11	NPG 1000.2	NASA Strategic Management Handbook
4.12		Space Science Enterprise Management Handbook

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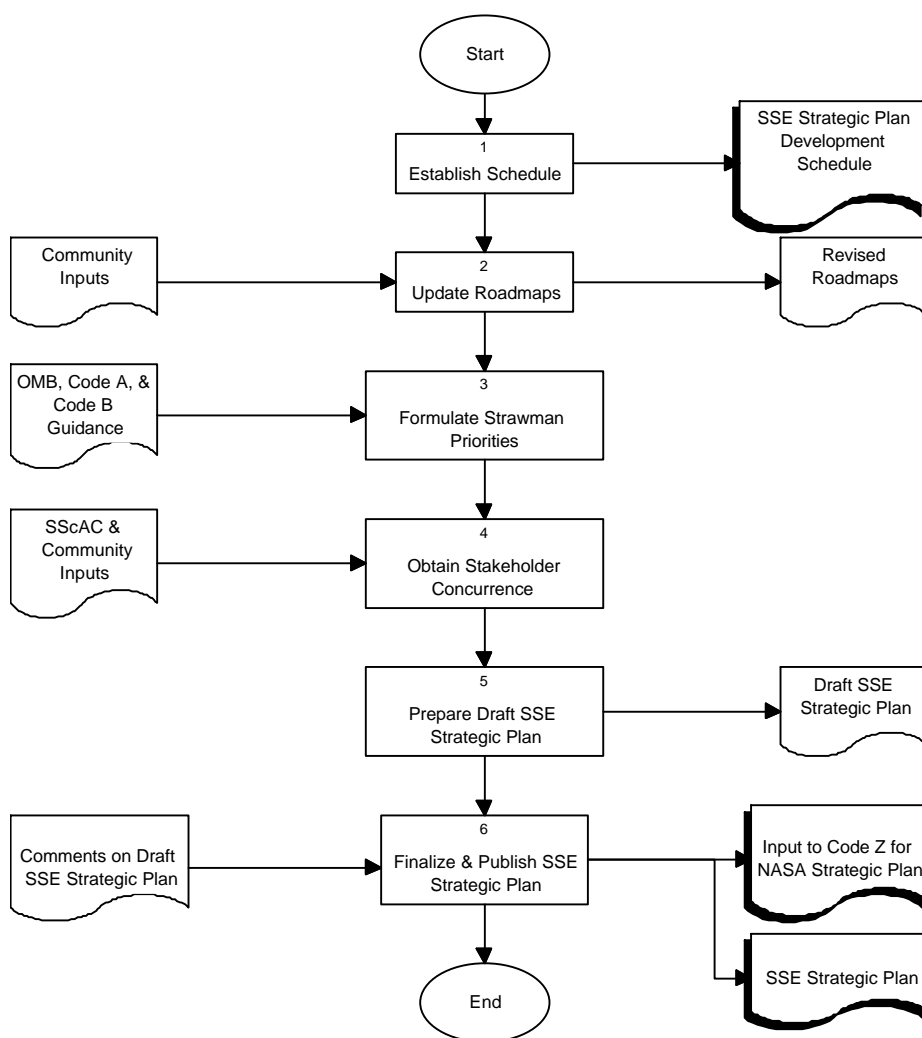
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5. FLOWCHART

[NOTE: "Quality record" output products are identified via shadowing of the standard ANSI document symbol.]



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6. PROCEDURE

[NOTE: The following sequence of process steps is numbered in accordance with the number assigned to each corresponding function block in the flowchart in Section 5.]

<u>STEP #</u>	<u>AGENTS</u>	<u>DESCRIPTION</u>
1	AAA/SIP	In consultation with the Executive Secretary of the SScAC, the Science Board of Directors (Code SA), and Code SM, the AAA/SIP lays out a plan and schedule for the development, review, and publication of the SSE Strategic Plan (SP). The major steps for this process are defined in this OWI. After a detailed schedule (with milestones for partial completion) is established and approved by the AA, it is documented and disseminated to the SScAC, its thematic sub-committees, the Space Studies Board of the NRC, Code SA, Code SM, and Code SP.
2	SA, SM, Community	In conformance to the overall schedule for development of the SSE SP, the Science Directors task their SScAC advisory sub-committees or establish ad hoc community working groups to evaluate existing theme roadmap documents in science and technology for necessary revisions or extensions. Code SM supports the technology components of this activity. These revisions and extensions should include deleting obsolete data, updating near- and mid-term planning based on progress and new information, extending the near- and mid-term plan by the amount of time elapsed since the previous roadmaps (typically three years), and extending the far-term material a comparable amount into the future. Participants in the roadmapping process include not only community members but also industry representatives and individuals from the education and public-information sectors.

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Information in the science components of the roadmaps should focus on notional missions with appropriate science justification. Technology roadmaps should present an analysis of key areas where technological advancement is needed to enable the notional missions described in the science roadmaps. The results of these thematic roadmapping activities are documented in science and technology roadmap documents suitable for use in assessing and advocating alternative space-science program structures over the near-term. These results should also support a cursory SSE SP description of options for the mid-term.

- 3 AA, SA, SM Using programmatic, policy, and resource guidance from the Office of Management and Budget (OMB), Code A, and Code B, the AA and Science Directors will assemble a strawman program profile consisting of operating missions, missions in development, and desired new starts for the near-term period. Key necessary technology initiatives should also be identified. The program should be balanced and responsive to current NASA mission thrusts, technical feasibility, and likely resource availability. The science goals and objectives lists should be analyzed and refined, and any modifications to the thematic structure of the overall program should be defined.
- 4 AA, SA,
 Community The resulting strawman SSE SP is briefed to community representatives, including participants in the science and technology roadmapping activities. Inputs for suggested modifications or elaborations are obtained. One option for implementing this step is to have a large workshop attended by the appropriate individuals, including NASA science and technology managers and roadmapping participants and other community members.

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- 5 AA, SA, SM, In consultation with the Science Directors and taking into
 AAA/SIP account community inputs obtained in Step #4, the AA makes
 final decisions about the content of the SSE SP. The
 AAA/SIP assists the Science Directors in preparing a draft
 SSE SP suitable for broader external review. Per the
 established schedule for SSE SP development, this draft is
 circulated to the community and other stakeholders (including
 the SScAC and its sub-committees and the Space Studies
 Board) for comment.

- 6 AA, SA, SM, Taking into account inputs received from stakeholders in
 AAA/SIP response to circulation of the draft SSE SP, the AA (in
 consultation with the Science Directors) determines revisions
 to the SSE SP.

The AAA/SIP collaborates with Code Z personnel to coordinate the revised SSE SP with development of revisions to the NASA Strategic Plan. This entails generating summary information for inclusion in the NASA document.

Working with OSS graphics specialists, the AAA/SIP compiles necessary images and interfaces with the NASA print shop to produce final printed copies of the SSE SP. These are broadly distributed to the community and other stakeholders, including administration officials and Congressional members and staff.

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7. QUALITY RECORDS

RECORD IDENTIFICATION	OWNER	LOCATION	MEDIA (ELECTRONIC/HARDCOPY)	RETENTION	DISPOSITION
SSE Strategic Plan Development Schedule	Code S	Code S files	Hardcopy	5 years	Destroy 5 years after supersession or completion
Input to Code Z for NASA Strategic Plan	Code S	Code S files	Hardcopy	5 years	Destroy 5 years after supersession or completion
SSE Strategic Plan	Code S	Code S files	Hardcopy	5 years	Destroy 5 years after supersession or completion

[NOTE #1: These "quality record" output products are identified in Section 5 ("Flowchart") of this OWI via shadowing of the standard ANSI document symbol.]

[NOTE #2: In accordance with NPG 1441.1 NASA Records Retention Schedules, "... installations' office of primary responsibility will maintain one official record copy ...; reference copies may be maintained for related work". Therefore, the "Retention" and "Disposition" aspects of quality records apply only to the one official record copy of each quality record.]